

## ABSTRACT

A power source device includes a transformer having a first winding and a second winding, an oscillator self-oscillating with using the first winding of the transformer and supplying an oscillating voltage to the first winding, a rectifier for converting an AC voltage output from the second  
5 winding into a DC voltage and outputting the DC voltage, first and second output terminals for outputting the DC voltage output from the rectifier, and a diode connected between the first and second output terminals of the rectifier so that a polarity of the diode is reverse to a polarity of the DC  
10 voltage. The first and second output terminals are connected with a load charged with an electric charge having a polarity reverse to the polarity of the DC voltage. This power source device can start operating easily without a Zener diode having a high Zener voltage.